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Integrable and near-integrable long-wave models in stratified shear flows

Monday, September 2, 2019 5:00 PM (30 minutes)

In this talk I will overview recent developments concerning a version of the Kadomtsev-Petviashvili (KP) equation for surface gravity waves related to elliptic-cylindrical geometry, a system of coupled Ostrovsky equations derived for strongly interacting internal waves in the presence of background rotation and a shear flow, and 2+1-dimensional cylindrical Korteweg-de Vries (cKdV)-type model describing ring waves in a stratified fluid in the presence of a depth-dependent parallel shear flow.

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